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10/541,294	06/30/2005	James M Milliken	248.03	6643
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ERICKSON, KERNELL, DERUSSEAU & KLEYPAS, LLC			HAYES, KRISTEN C	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/541,294	<b>Applicant(s)</b> MILLIKEN, JAMES M
	<b>Examiner</b> KRISTEN C. HAYES	<b>Art Unit</b> 3643

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
  - If no period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 10/16/2009.
- 2a) This action is FINAL.      2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-16, 18 and 20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-16, 18, 20 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- 1) Notice of References Cited (PTO-892)  
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  
 3) Information Disclosure Statement(s) (PTO/GS-68)  
 Paper No(s)/Mail Date \_\_\_\_\_
- 4) Interview Summary (PTO-413)  
 Paper No(s)/Mail Date \_\_\_\_\_
- 5) Notice of Informal Patent Application  
 6) Other: \_\_\_\_\_

**DETAILED ACTION**

***Specification***

1. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: Claim 10 claims that the means for weighting can be metal cable or rope. However, these limitations are not disclosed by the specification.

***Claim Rejections - 35 USC § 112***

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 1-16, 18, 20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

4. Claim 1 recites the limitation "the underside" in lines 6-7 and line 11. There is insufficient antecedent basis for this limitation in the claim.

5. Claim 3 recites the limitation of "a perforated sheet or a woven or non-woven textile material." It is unclear if all the elements listed are in the alternative (should the first "or" be "of"?). Also, the criticality of the make of the textile material is unclear, as it can be woven or non-woven.

6. Claim 13 recites the limitation of "said tube further comprises means for restricting flow of fluid therethrough." However, it appears that the hose comprises means for restricting flow of fluid, not the tube.

7. Claim 16 recites the limitation "the underside" in line 6. There is insufficient antecedent basis for this limitation in the claim.

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8. Claim 20 recites the limitation "the underside" in line 8. There is insufficient antecedent basis for this limitation in the claim.

***Claim Rejections - 35 USC § 103***

9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

10. Claims 1-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Smith US 3,955,319 in view of Eckart US RE15,231, Frydryk US 4,044,501 and Chapin US 3,361,359.

11. Regarding claim 1, Smith discloses a garden weed barrier and watering apparatus (Smith, Figures 1-8A) comprising a flexible sheet (10) of vapor-permeable material (Smith, column 2: lines 44-47), an opening (formed by slits such as 13, or as seen in Figures 1A-8) in said sheet for garden plant (P) stems to extend therethrough, with said opening formed from a flap cut from said sheet; and means for weighting said edges to substantially conform said edges to the surface of the ground (Smith, column 3: line 68-column 4: line 1). Not disclosed is the flap folded back upon the underside of the sheet forming a tube that would define an edge of said opening, the sheet having reinforced outer edges, or a fluid permeable hose or the hose threaded through a tube. Eckart teaches a flap formed by a slit folded back upon the underside of a sheet (Eckart, Figure 3), wherein said tube formed would define an edge of an opening. Frydryk teaches a weed barrier with reinforced edges (12, 14). Chapin teaches a permeable hose (44) threaded in a tube. The examiner takes official notice that hoses threaded through tubes are arrangements known in the art (as evidenced by US 3,205,619; US 6619565 B11; US 5,839,659; US 3,361,359). It would have been obvious to one of ordinary skill in the art at the

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time of the invention to modify the device of Smith so that the flaps were folded back upon the underside of the sheet as taught by Eckart so as to ensure the opening remained unblocked to predictably aid the growth of the plant; to reinforce the edges of the sheet as taught by Frydryk as to prevent damage to the sheet by strengthening the edges; and to thread the permeable hose of Chapin through a tube in the sheet so as to achieve the predictable result of providing an irrigation system (as well known in the art) and to secure the hose to the device.

12. Regarding claim 2, Smith as modified by Eckart, Frydryk and Chapin disclose the device of claim 1. Smith further discloses the sheet comprising a polyethylene material (Smith, column 3: line 63, but is silent as to if it is woven or non-woven. However, non-woven polyethylene is known in the art (evidenced by US 2003/0000139). Frydryk further discloses a weed barrier made of non-woven polymer material (Frydryk, column 4: lines 33-35). It has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin*, 125 USPQ 416. It would have been an obvious matter of engineering design choice to one of ordinary skill in the art at the time of the invention to make the sheet of Smith out of a non-woven polymer material (as suggested by Frydryk) depending on the type of material desired by the user.

13. Regarding claim 3, Smith as modified by Eckart, Frydryk and Chapin further disclose the sheet comprising a perforated sheet (in that slits 13, 19 etc. form perforations in the sheet of Smith) of a woven or non-woven textile material.

14. Regarding claim 4, Smith as modified by Eckart, Frydryk and Chapin further disclose the sheet comprising thermoplastic material (in that the sheet of Smith is made from polyethylene, a thermoplastic). The limitation of the thermoplastic being felted is considered a product-by-process limitation. If the product in a product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior art was made by a

different process. The examiner also takes official notice that it is known in the art to make sheets out of felted thermoplastic material (evidenced by US 5,181,952). It would have been obvious to one of ordinary skill in the art at the time of the invention to make the sheet of Smith out of felted thermoplastic, depending on the desired properties of the sheet.

15. Regarding claim 5, Smith as modified by Eckart, Frydryk and Chapin disclose the device of claim 1. Frydryk further discloses the reinforced edges being a double layer of the sheet (Frydryk, column 3: lines 44-46) secured by adhesive (Frydryk, column 5: lines 27-29, lines 42-43).

16. Regarding claim 6, Smith as modified by Eckart, Frydryk and Chapin disclose the device of claim 1. Frydryk further discloses the reinforced edges having holes (35).

17. Regarding claim 7, Smith as modified by Eckart, Frydryk and Chapin further disclose the openings being substantially rectangular (Smith, Figure 5A).

18. Regarding claim 8, Smith as modified by Eckart, Frydryk and Chapin further disclose the openings being arranged in one or more substantially parallel rows (Smith, Figures 1A-8).

19. Regarding claim 9, Smith as modified by Eckart, Frydryk and Chapin further disclose the openings being substantially circular (Smith, Figure 5B).

20. Regarding claim 10, Smith as modified by Eckart, Frydryk and Chapin further disclose the means for weighting being earth (Smith, column 3: line 68-column 4: line 1). As sand is found in earth, Smith is seen as meeting the limitations of the claim.

21. Regarding claim 11, Smith as modified by Eckart, Frydryk and Chapin further disclose the sheet being substantially opaque (Smith, column 3: lines 62-64).

22. Regarding claim 12, Smith as modified by Eckart, Frydryk and Chapin further disclose the means for weighting comprising one or more solid weights attached about the periphery of the sheet, said weights having sufficient flexibility (Smith, column 3: line 68-column 4: line 1).

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23. Regarding claim 13, Smith as modified by Eckart, Frydryk and Chapin disclose the device of claim 1 but does not disclose a flow restrictor. However, the examiner takes official notice that flow restrictors are found on hoses in the art (as evidenced by 5,212,905). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the hose (as best understood) of Chapin with a flow restrictor as known in the art, so as to predictably prevent high pressure water from the hose from damaging the plant.

24. Regarding claim 14, Smith as modified by Eckart, Frydryk and Chapin disclose<sup>7</sup> the device of claim 13 but does not disclose the means for restricting comprising a flat plastic disc with an aperture positioned within the tube. However, the examiner takes official notice that this is well known in the art to restrict the flow of fluid. The disk blocks the flow of the fluid, and the size of the aperture changes the area the fluid flows through, determining the mass and volumetric flow rates of the fluid. This is an effective, simple way to restrict the flow of fluid through a tube or pipe. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the hose of Chapin with a flat plastic disk comprising an aperture, positioned within the tube, to provide a simple way to restrict the flow of fluid through the tube, as known to those skilled in the art.

25. Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Smith US 3,955,319 in view of Eckart US RE15,231; Frydryk US 4,044,501 and Chapin US 3,361,359 as applied to claims 1-14 above, and in further view of Baird US 5,709,049.

26. Regarding claim 15, Smith as modified by Eckart, Frydryk and Chapin disclose the device of claim 13, but do not disclose the means for restricting comprising a conical flow restrictor. Baird teaches a means for restricting comprising a conical flow restrictor (108) in the form of a cone having a flange projecting from the base of said cone (Baird, Figure: 2) and an

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axial bore (Baird, column 5: lines 22-24) through the longitudinal center of said conical flow restrictor. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the hose of the combination Smith as modified by Eckart, Frydryk, and Chapin with a conical flow restrictor, as taught by Baird, to provide a simple way to restrict the flow of fluid through the tube, as known to those in the art.

27. Claims 16 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Smith US 3,955,319 in view of Eckart US RE15,23 and Chapin US 3,361,359.

28. Regarding claims 16 and 20, Smith discloses a garden weed barrier and watering apparatus (Smith, Figures 1-8A) comprising an opaque (Smith, column 3: lines 60-64) vapor-permeable (Smith, column 2: lines 44-47) landscape fabric (10) with weighted outer edges (Smith, column 3: line 68-column 4: line 1) of sufficient flexibility, an opening (formed by slits such as 13, or as seen in Figures 1A-8) in said sheet for garden plant (P) stems to extend therethrough, with said opening formed from a flap cut from said sheet. Not disclosed is the flap folded back upon the underside of the sheet forming a tube that would define an edge of said opening, or a fluid permeable hose or the hose threaded through a tube. Eckart teaches a flap formed by a slit folded back upon the underside of a sheet (Eckart, Figure 3), wherein said tube formed would define an edge of an opening. Chapin teaches a permeable hose (44) threaded in a tube. The examiner takes official notice that hoses threaded through tubes are arrangements known in the art (as evidenced by US 3,205,619; US 6619565 B11; US 5,839,659; US 3,361,359). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the device of Smith so that the flaps were folded back upon the underside of the sheet, as taught by Eckart, so as to ensure the opening remained unblocked to predictably aid the growth of the plant; and to thread the permeable hose of Chapin through a tube in the

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sheet so as to achieve the predictable result of providing an irrigation system (as well known in the art) and to secure the hose to the device. Given the device, the method is inherently performed.

29. Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Smith US 3,955,319 in view of Eckart US RE15,23 and Chapin US 3,361,359, as applied to claim 16 above, and in further view of Warner US 2004/0088914.

30. Regarding claim 18, Smith in view of Eckart and Chapin discloses a device with the limitations of claim 16, but does not disclose weights secured within pockets. However, Warner teaches the edge portion comprising weights secured within edge pockets (Warner, Figure 2). The weights being secured within edge pockets would allow the weights to be interchangeable. If more or less weight were needed, it could be added or removed from the edge pockets accordingly. This would allow the device to be used in a variety of applications and environments. Also, different weighting means such as sand or water could be used. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to substitute the weighted edges of Smith as modified by Eckart and Chapin with weights secured in edge pockets, as taught by Warner, in order to achieve the predictable result of allowing the weights of the device to be interchangeable.

#### *Response to Arguments*

31. The applicant has not addressed the specification objection or the 112 rejections made in the previous action.

32. Applicant's arguments with respect to claims 16, 19 and 20 have been considered but are moot in view of the new ground(s) of rejection.

33. Applicant's arguments filed 10/16/2009 have been fully considered but they are not persuasive.

34. Eckert teaches a flap folded upon the underside of the sheet, as the points of the flaps are folded under the sheet, as seen in Figure 3. The plant openings of Eckart are element 5, not 10. It is unclear as to what point the applicant is arguing when he highlights that additional openings are remote from the planting openings.

35. Chapin is used to teach hoses threaded through tubes of sheets used for irrigation in planting systems.

36. As to Baird not disclosing a flow restrictor, the changing dimensions of element (108) would restrict the flow of fluid through the tube from a source of water when coupled to the source of water. As to element 108 being a conical flow restrictor, the Figures of Baird show the element 108 in conical form.

37. The examiner notes the well-known in the art statements that hoses threaded through tubes are arrangements known in the art; and means for restricting comprising a flat plastic disc with an aperture positioned within the tube is taken to be admitted prior art because applicant failed to traverse the examiner's assertion of official notice.

### ***Conclusion***

38. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KRISTEN C. HAYES whose telephone number is (571)270-3093. The examiner can normally be reached on Monday-Thursday, 7:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Poon can be reached on (571)272-6891. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/KCH/  
3 February 2010

/Rob Swiatek/  
Primary Examiner, Art Unit 3643  
3 February 2010